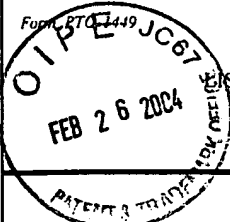
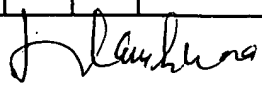


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FILING DATE				GROUP			

U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
7	AA	6,076,088	06/13/00	Paik et al.			
	AB	6,070,133	05/30/00	Brewster et al.			
	AC	6,031,537	02/29/00	Hugh			
	AD	6,026,388	02/15/00	Liddy et al.			
	AE	5,973,662	10/26/99	Singers et al.			
	AF	5,960,381	09/28/99	Singers et al.			
	AG	5,950,196	09/07/99	Pyreddy et al.			
	AH	5,897,627	04/27/99	Leivian et al.			
	AI	5,891,729	04/06/99	Behan et al.			
	AJ	5,873,080	02/16/99	Coden et al.			
	AK	5,826,261	10/20/98	Spencer			
FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	AL						
	AM						
	AN						
	AO						
	AP						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
7	AR		Visualizing the Non-Visual: Spatial analysis and interaction with information from text documents, James A. Wise et al.,				
			Proceedings of IEEE '95 Information Visualization, (2 pages) pages 51-58, Atlanta, GA, October 1995. IEEE Service Center.				
7	AS		The Grammar of Graphics, Leland Wilkinson, ©1999 Springer-Verlag New York, Inc., pages 297 & 298.				
7	AT		Evaluation of a Tool for Visualization of Information Retrieval Results, Aravindan Veerasamy et al.,				
			©1996 SIGIR, Zurich, Switzerland ACM, 8 pages.				
EXAMINER 				DATE CONSIDERED 04/12/04			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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FILING DATE				GROUP	

U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
ho	AA	5,659,732	08/19/97	Kirsch			
7	AB	5,625,767	04/29/97	Bartell et al.			
	AC	5,576,954	11/19/96	Driscoll			
	AD	5,553,226	09/03/96	Kiuchi et al.			
	AE						
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FOREIGN PATENT DOCUMENTS							
Document Number	Date	Country	Class	Subclass	Translation		
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)			
ho	AR	<input checked="" type="checkbox"/>	TileBars: Visualization of Term Distribution Information in Full Text Information Access, Marti A. Hearst, © ACM 95, pages 1-5 and 3 images.
7	AS	<input type="checkbox"/>	To See, or Not to See-Is That the Query?, Robert R. Korfhage, ©1991 ACM, pages 134-141.
	AT	<input type="checkbox"/>	Multimedia Analysis, K. V. Mardia et al., Academic Press Ltd., London, U.K., 1970 (ISBN 0 13 171352 5).

EXAMINER <i>J. A. H. H. H.</i>	DATE CONSIDERED 04/15/04
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U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA					
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FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
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	AL						
	AM						
	AN						
	AO						
	AP						

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

lo	AR		<i>Metaphoric Abstraction: The Role of Time and Complex Systems, R.R. Singero, ©1998 Johnson Controls, Inc., pages 1-8.</i>
1	AS		<i>Metaphoric Abstraction: the Starfield and Complex Systems, R.R. Singero & L.S. Endres.</i>
			<i>1994 Symposium on Human Interaction with Complex Systems, pages 34-46.</i>
	AT		

EXAMINER

L. L. Lander

DATE CONSIDERED

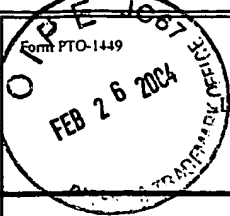
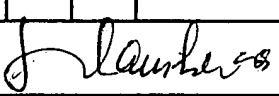
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

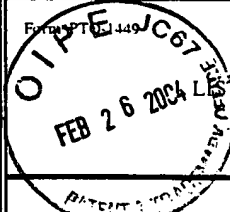
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Form 20-1149 FEB 26 2004 PATENT & TRADEMARK OFFICE		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. BA4-067		SERIAL NO. 09755.503	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Nancy E. Miller et al.		FILING DATE 01/05/01	
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FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation
							Yes No
	AB	WO 00/43908	07/27/00	PCT			
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
1-9 7	AC		Keim, Daniel A., "Designing Pixel-Oriented Visualization Techniques: Theory and Applications," © 2000 IEEE, pages 1-20.				
	AD		Dubin, David, "Document Analysis for Visualization," © 1995 ACM, pages 199-203.				
	AE		Mukherjee et al., "Visualizing the Results of Multimedia Web Search Engines," © 1996 IEEE, pages 1-2 plus drawing.				
	AF		Grewal et al., "A Visual Representation of Search-engine Queries and their Results," © 2000 IEEE, pages 352-356.				
	AG		Hoffman, Donald D., "Visual intelligence: How we create what we see," © 1998 W.W. Norton, 4 pages from web site.				
	AH		Cooper and Ruger, "A Simple Question Answering System," Proceedings of TREC-9, NIST (Gaithersburg, MD), pages 249-255.				
	AI		von Schroeter et al., "From Raw Polyphonic Audio to Locating Recurring Themes," pages 1-11.				
	AJ		Carey et al., "New Paradigms in Information Visualization," © 2000 ACM, pages 307-309.				
	AK		Ruger et al., Automatic Query Feedback Using Related Words, Proceedings of TREC-8, NIST (Gaithersburg, MD), pages 421-423.				
	EXAMINER	<i>J. Lamber</i>			DATE CONSIDERED 04/15/04		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

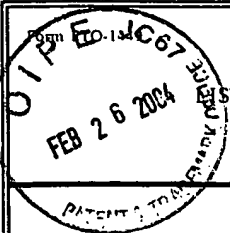
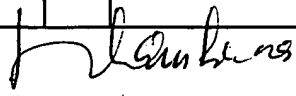
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)								
ls	AL		Zervas et al., "The Curse of Dimensionality and Document Clustering," © 1999 IEEE, pages 19/1-19/3.					
/	AM		Ruger, Stefan M., "Feature Reduction for Information Retrieval," TREC-7, NIST (Gaithersburg, MD), pages 409-412.					
EXAMINER					DATE CONSIDERED			
					04/15/04			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>								

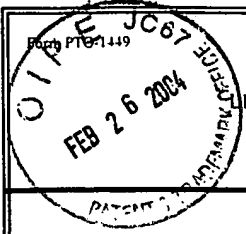
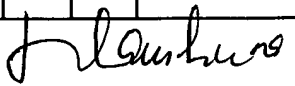
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ls	AA	5,847,708	12/08/98	Wolff				
7	AB	5,778,362	07/07/98	Deerwester				
	AC	5,761,685	06/02/98	Hutson				
	AD	5,175,710	12/29/92	Hutson				
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	AM							
	AN							
	AO							
	AP							
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)								
ls	AR		Spence, Robert, <i>Information Visualization: The Neighbourhood Explorer</i> , ©2001 ACM Press, pages 85-88 and reference page.					
7	AS		Mardia et al., K.V., <i>Multivariate Analysis</i> , ©1994 Academic Press, pages 394-425.					
	AT	✓	Olsen et al., Kai A., <i>Visualization of a Document Collection: The Vibe System</i> , ©1993 Pergamon Press Ltd., pages 69-81.					
EXAMINER			DATE CONSIDERED					
ls			04/15/04					
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	AN						
	AO						
	AP						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
ls	AR	✓	Spoerri, Anselm, <i>Info Crystals: A visual tool for information retrieval</i> , ©1993 IEEE, pages 150-157.				
7	AS		Homenjo et al., <i>Machias, LybaalWorld - A Visualization User Interface Supporting Fulltext Retrieval</i> , pages 340-359.				
	AT						
EXAMINER					DATE CONSIDERED 04/15/04		
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FOREIGN PATENT DOCUMENTS							
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	AB						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
20	AC		Sewraz et al., "A Visual Information-Retrieval Navigator," BCS IRSG 2000 (Cambridge, UK, 5-7 April 2000), 10 pages.				
7			THE FOLLOWING FOUR (4) ITEMS ARE TALKS GIVEN AT VARIOUS CONFERENCES, NO WRITTEN MATERIALS				
			ARE AVAILABLE.				
	AD		Ruger, S.M., "The Freedom to Forget: Multimedia Knowledge Management," University of Glasgow, Department of Computer Science,				
			IR Group, 11 December 2000; University of Exeter, Department of Computer Science, 30 November 2000.				
	AE		Ruger, S.M., "Challenges of Information Retrieval on the Web," Knowledge Web Workshop, IC, London, 23 September 1998.				
	AF		Ruger, S.M., "Efficient Graphical Models for Data Mining," RIKEN, The Institute of Physical and Chemical Research, Wako-shi, Japan,				
			12 June 1998; Imperial College, Department of Computing, London, 18 March 1998.				
	AG		Ruger, S.M., "Large Scale Data Mining Everywhere on the Internet," GMD, Forschungszentrum Informationstechnik GmbH,				
			Berlin-Adlershof, 22 October 1997.				
	AH						
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	AJ						
EXAMINER						DATE CONSIDERED 04/15/04	
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